STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 114779

TO: Rita Mitra
Location: rem/3b65
Art Unit: 1653
Friday, February 20, 2004

Case Serial Number: 09/786260

209

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen E01A69
Phone: 571-272-2518

BOB

barbara.obryen@uspto.gov

Search Notes

Oligo search

No good. Late
Ex 1-30

GenCore version 5.1.6


```
otein - protein search, using sw model

1:          February 19, 2004, 18:21:50 ; Search time 41 Seconds
                                    (without alignments)
                                    460.694 Million cell updates/sec

:           US-09-786-260-1
ct score:   119
nce:        1 MKVLISSLLLLLPLMLMSMV..........SRACQQFLKQCQLRSFALPL 119

ng table:   OLIGO
            Gapop 60.0 , Gapext 60.0

ned:        1107863 seqs, 158726573 residues

size :      0

number of hits satisfying chosen parameters:      1107863

um DB seq length: 0
um DB seq length: 2000000000

processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

lt o.	Score	% Query Match	Length	DB	ID	Description
1	119	100.0	119	21	AAB34728	Human secreted pro
2	119	100.0	119	21	AAY82453	Human TGC-440 secr
3	119	100.0	119	21	AAY87317	Human signal pepti
4	119	100.0	119	21	AAY66668	Membrane-bound pro
5	119	100.0	119	22	AAU29093	Human PRO polypept
6	119	100.0	119	22	AAG63977	Amino acid sequenc
7	119	100.0	119	22	AAB87538	Human PRO842. Hom
8	119	100.0	119	22	AAB65191	Human PRO842 (UNQ4
9	119	100.0	119	23	ABP54931	Human cytokine PRO
10	119	100.0	119	23	ABG95863	Human secreted/tra
11	119	100.0	119	24	ABU71181	Human PRO842 prote
12	119	100.0	119	24	ABU71518	Human secreted pol
13	119	100.0	119	24	ABU71964	Novel human secret
14	119	100.0	119	24	ABU72121	Human PRO polypept
15	119	100.0	119	24	ABU65638	Human secreted/tra
16	119	100.0	119	24	ABU65971	Novel human secret
17	119	100.0	119	24	ABU67475	Human secreted/tra
18	119	100.0	119	24	ABU65333	Human PRO polypept
19	119	100.0	119	24	ABU59084	Novel human secret
20	119	100.0	119	24	ABU59231	Human secreted/tra
21	119	100.0	119	24	ABU59380	Novel human secret
22	119	100.0	119	24	ABU60515	Human secreted/tra
23	119	100.0	119	24	ABU58006	Human PRO polypept
24	119	100.0	119	24	ABU58469	Human PRO polypept
25	119	100.0	119	24	ABU58937	Human sectreted/tr
26	119	100.0	119	24	ABU56005	Human secreted/tra
27	119	100.0	119	24	ABU57000	Human PRO polypept
28	119	100.0	119	24	ABU13897	Human PRO842 polyp
29	119	100.0	119	24	ABU10579	Human secreted/tra
30	119	100.0	119	24	ABU10852	Human PRO polypept
31	97	81.5	97	21	AAY82454	Mature human TGC-4
32	93	78.2	93	19	AAW83953	Polypeptide encode
33	69	58.0	69	20	AAY11732	Human 5' EST secre
34	37	31.1	64	19	AAW83938	Human secreted pro
35	24	20.2	48	20	AAY11731	Human 5' EST secre
36	13	10.9	97	21	AAY82458	Mature mouse TGC-4
37	13	10.9	119	21	AAY82457	Mouse TGC-440 secr
38	9	7.6	144	21	AAG09686	Arabidopsis thalia
39	8	6.7	58	22	AAU22441	Human cardiovascul
40	8	6.7	60	22	ABG57426	Human liver peptid
41	8	6.7	60	22	ABB41994	Peptide #9500 enco
42	8	6.7	60	22	ABB25625	Protein #7624 enco
43	8	6.7	60	22	AAM62872	Human brain expres
44	8	6.7	60	22	AAM75685	Human bone marrow
45	8	6.7	60	22	AAM35795	Peptide #9832 enco

ALIGNMENTS

```
RESULT 1
AAB34728
ID   AAB34728 standard; Protein; 119 AA.
XX
AC   AAB34728;
XX
DT   26-JAN-2001  (first entry)
XX
DE   Human secreted protein encoded by DNA clone vq8 1.
XX
KW   Secreted protein; human; autoimmune disorder; multiple sclerosis; ulcer;
KW   systemic lupus erythematosus; rheumatoid arthritis; anaemia; stroke;
KW   haematopoiesis regulation; tissue regrowth; wound healing; haemophilia;
KW   Alzheimer's disease; Parkinson's disease; Shy-drager syndrome; cancer;
KW   contraceptive; infection; growth inhibition; hyperproliferative disorder;
KW   psoriasis.
XX
OS   Homo sapiens.
XX
PN   WO200055375-A1.
XX
PD   21-SEP-2000.
XX
PF   17-MAR-2000; 2000WO-US07285.
XX
PR   17-MAR-1999;   99US-0124808.
PR   17-MAR-1999;   99US-0124916.
PR   17-AUG-1999;   99US-0149639.
PR   01-OCT-1999;   99US-0157247.
PR   29-NOV-1999;   99US-0167824.
PR   15-FEB-2000; 2000US-0182711.
XX
```

(ALPH-) ALPHAGENE INC.

Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;

WPI; 2000-638211/61.
N-PSDB; AAC59829.

Novel proteins and polypeptides useful for the treatment of e.g multiple sclerosis, systemic lupus erythmatosus, rheumatoid arthritis, cancer, Alzheimer's disease, Parkinson's disease, stroke, anemia and ulcers -

Claim 92; Page 441-442; 493pp; English.

This invention relates to 59 human secreted proteins and the nucleotide sequences encoding them. Sequences AAC59788-C59846 and AAB34687-B34745 represent the proteins and their encoding nucleotide sequences, and sequences AAB34746-B34771 represent fragments of the proteins. Probes for the DNA sequences are represented by sequences AAC59847-C59596. The proteins exhibit neuroprotective, dermatological, immunosuppressive, antiinflammatory, antianaemic, nootropic, antiparkinsonian, cerebroprotective, haemostatic, vulnerary, cytostatic, antipsoriatic, antibacterial, virucide, and fungicide activity. The proteins and nucleotide sequences are useful as nutritional sources or supplements and in research. The proteins are useful for treating immune deficiency and disorders, which may be genetic or resulting from infections, autoimmune disorders such as multiple sclerosis, systemic lupus erythmatosus, rheumatoid arthritis, and for treating myeloid or lymphoid cell deficiencies such as anaemias by regulating haematopoiesis. The proteins are also useful in compositions for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, for wound healing, tissue repair and replacement and in the treatment of wounds, incisions and ulcers. Other uses include in the treatment of central and peripheral nervous system and neuropathies such as Alzheimer's and Parkinson's diseases and Shy-Drager syndrome, and mechanical and traumatic disorders, such as spinal cord disorders, head trauma and stroke. The proteins may also be used as a contraceptive, and for treating coagulation disorders such as haemophilias. The protein and nucleotide sequences with cadherin activity are useful for treating cancer. Other uses for the protein include for inhibiting the growth, infection or function of, or killing, infectious agents such as bacteria, virus, fungi and other parasites, for effecting bodily characteristics such as height, weight, hair colour, effecting biorhythms or cardiac cycles or rhythms, effecting metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors, effecting behavioural characteristics, providing analgesic effects and for treating hyperproliferative disorders such as psoriasis.

Sequence 119 AA;

```
iery Match            100.0%;  Score 119;  DB 21;  Length 119;
est Local Similarity   100.0%;  Pred. No. 3.3e-110;
atches  119;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119


ULT 2
82453
  AAY82453 standard; Protein; 119 AA.

  AAY82453;

  30-JUN-2000  (first entry)

  Human TGC-440 secretory protein SEQ ID NO:1.
```

XX
KW TGC-440; secretory protein; immunological disease; infectious disease;
KW pulmonary function disorder; hepatic function disorder; nephrotropic;
KW gastrointestinal function disorder; antiinflammatory; immunomodulatory;
KW virucide; hepatotropic; antiasthmatic; antibacterial; vaccine;
KW hepatitis; nephritis; influenza; asthma; pulmonary hypertension;
KW pneumonia; Helicobacter pylori infection.
XX
OS Homo sapiens.
XX
PN WO200014226-A1.
XX
PD 16-MAR-2000.
XX
PF 02-SEP-1999; 99WO-JP04765.
XX
PR 03-SEP-1998; 98JP-0250108.
XX
PA (TAKE) TAKEDA CHEM IND LTD.
XX
PI Itoh Y, Ogi K, Tanaka H, Kitada C;
XX
DR WPI; 2000-256978/22.
DR N-PSDB; AAA08343, AAA08344.
XX
PT Secretory protein TGC440, antibodies to it and compounds promoting or
PT inhibiting its activity for diagnosis and treatment of diseases of the
PT immune system, lung, kidney, liver and intestinal system -
XX
PS Claim 1; Fig 1; 86pp; Japanese.
XX
CC The present sequence represents a human secretory protein designated
CC TGC-440. TGC-440 has antiinflammatory, nephrotropic, immunomodulatory,
CC virucide, hepatotropic, antiasthmatic and antibacterial activities,
CC and can be used in vaccines. TGC-440 and the polynucleotide sequence
CC encoding it can be used to treat, prevent and diagnose immunological,
CC lung, liver, kidney or gastrointestinal disorders and infectious
CC diseases, such as hepatitis, nephritis, influenza, asthma, pneumonia,
CC pulmonary hypertension, and Helicobacter pylori infection. An antibody
CC immunospecific for TGC-440 is also useful in the above treatment and
CC diagnosis, and also for quantifying the amount of TGC-440 in a liquid
CC specimen.
XX
SQ Sequence 119 AA;

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  Query Match            100.0%;  Score 119;  DB 21;  Length 119;
  Best Local Similarity  100.0%;  Pred. No. 3.3e-110;
  Matches  119;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119


RESULT 3
AAY87317
ID  AAY87317 standard; Protein; 119 AA.
XX
AC  AAY87317;
XX
DT  11-MAY-2000  (first entry)
XX
DE  Human signal peptide containing protein HSPP-94 SEQ ID NO:94.
XX
KW  Human; signal peptide-containing protein; HSPP; diagnosis; cancer;
KW  inflammation; cardiovascular disease; anticancer; anti-inflammatory;
KW  antimicrobial; nootropic; neuroprotective; cardiovascular; hepatotropic;
KW  antiasthmatic; gene therapy; cell proliferation; neurological disorder;
KW  reproductive disorder; developmental disorder; arteriosclerosis;
```

:irrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
isthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
?arkinson's disease; Huntington's diseases; ovulatory defect;
nuscular dystrophy.

Homo sapiens.

WO200000610-A2.

)6-JAN-2000.

?5-JUN-1999; 99WO-US14484.

?6-JUN-1998; 98US-0090762.
31-JUL-1998; 98US-0094983.
)1-OCT-1998; 98US-0102686.
11-DEC-1998; 98US-0112129.

(INCY-) INCYTE PHARM INC.

Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;
Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
Bandman O;

WPI; 2000-160673/14.
N-PSDB; AAZ98202.

New human signal peptide-containing proteins useful in treatment, prevention and diagnosis of e.g. cancer, inflammation and cardiovascular disease -

Claim 1; Page 220-221; 327pp; English.

AAZ98109 to AAZ98242 encode AAY87224 to AAY87357 which represent the human signal peptide-containing proteins HSPP-1 to HSPP-134. HSPPs have anticancer, anti-inflammatory, antimicrobial, *nootropic*, hepatotropic, neuroprotective, cardiovascular and antiasthmatic activities, and can be used in gene therapy. HSPPs can be used to treat or prevent disorders associated with decreased activity or function of *HSPP*. Antagonists of HSPP are used to treat or prevent disorders associated with increased activity or function of HSPP. Such diseases include cell proliferation (including cancer), inflammation, cardiovascular, neurological, reproductive or developmental disorders, (e.g. arteriosclerosis, cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia, asthma, Crohn's disease, microbial or other infections, congestive or ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's diseases, *schizophrenia*, ovulatory defects, muscular dystrophy). HSPP nucleic acids can be used for the recombinant production of HSPP, for detecting HSPP in standard hybridisation and amplification assays (for diagnosis and monitoring), in *gene therapy*, as *antisense*, triplex-forming or ribozyme therapeutics, for detecting related sequences or genetic variations, and for chromosomal mapping. HSPP are also used to raise specific antibodies (Ab) and to screen for agonists and antagonists (potential therapeutic agents). Ab are used to diagnose, or monitor, HSPP-related diseases (in usual immunoassays), as therapeutic antagonists, in competitive drug screens, and for purification of HSPP from natural sources.

Sequence 119 AA;

ery Match 100.0%; Score 119; DB 21; Length 119;
st Local Similarity 100.0%; Pred. No. 3.3e-110;
ches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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        1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
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        1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

       61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
       61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

RESULT 4
AAY66668
ID AAY66668 standard; protein; 119 AA.
XX
AC AAY66668;
XX
DT 05-APR-2000 (first entry)
XX
DE Membrane-bound protein PRO842.
XX
KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
KW pharmaceutical; receptor immunoadhesin; gene mapping.
XX
OS Homo sapiens.
XX
PN WO9963088-A2.
XX
PD 09-DEC-1999.
XX
PF 02-JUN-1999; 99WO-US12252.
XX
PR 02-JUN-1998; 98US-0087607.
PR 02-JUN-1998; 98US-0087609.
PR 02-JUN-1998; 98US-0087759.
PR 03-JUN-1998; 98US-0087827.
PR 04-JUN-1998; 98US-0088021.
PR 04-JUN-1998; 98US-0088025.
PR 04-JUN-1998; 98US-0088028.
PR 04-JUN-1998; 98US-0088029.
PR 04-JUN-1998; 98US-0088030.
PR 04-JUN-1998; 98US-0088033.
PR 04-JUN-1998; 98US-0088326.
PR 05-JUN-1998; 98US-0088167.
PR 05-JUN-1998; 98US-0088202.
PR 05-JUN-1998; 98US-0088212.
PR 05-JUN-1998; 98US-0088217.
PR 09-JUN-1998; 98US-0088655.
PR 10-JUN-1998; 98US-0088722.
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PR 10-JUN-1998; 98US-0088742.
PR 10-JUN-1998; 98US-0088810.
PR 10-JUN-1998; 98US-0088811.
PR 10-JUN-1998; 98US-0088824.
PR 10-JUN-1998; 98US-0088825.
PR 10-JUN-1998; 98US-0088826.
PR 11-JUN-1998; 98US-0088858.
PR 11-JUN-1998; 98US-0088861.
PR 11-JUN-1998; 98US-0088863.
PR 11-JUN-1998; 98US-0088876.
PR 12-JUN-1998; 98US-0089090.
PR 12-JUN-1998; 98US-0089105.
PR 16-JUN-1998; 98US-0089440.
PR 16-JUN-1998; 98US-0089512.
PR 16-JUN-1998; 98US-0089514.
PR 17-JUN-1998; 98US-0089532.
PR 17-JUN-1998; 98US-0089538.
PR 17-JUN-1998; 98US-0089598.
PR 17-JUN-1998; 98US-0089599.
PR 17-JUN-1998; 98US-0089600.
PR 17-JUN-1998; 98US-0089653.
PR 18-JUN-1998; 98US-0089801.
PR 18-JUN-1998; 98US-0089907.
PR 18-JUN-1998; 98US-0089908.
PR 19-JUN-1998; 98US-0089947.
PR 19-JUN-1998; 98US-0089948.
PR 19-JUN-1998; 98US-0089952.
PR 22-JUN-1998; 98US-0090246.
PR 22-JUN-1998; 98US-0090252.
PR 22-JUN-1998; 98US-0090254.

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26-JUN-1998; 98US-0090863.
01-JUL-1998; 98US-0091358.
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PR 26-AUG-1998; 98US-0097954.
PR 26-AUG-1998; 98US-0097955.
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PR 26-AUG-1998; 98US-0097974.
PR 26-AUG-1998; 98US-0097978.
PR 26-AUG-1998; 98US-0097979.
PR 26-AUG-1998; 98US-0097986.
PR 26-AUG-1998; 98US-0098014.
PR 31-AUG-1998; 98US-0098525.
PR 16-SEP-1998; 98US-0100634.
PR 12-JAN-1999; 99US-0115565.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
PI Wood WI, Yuan J;
XX
DR WPI; 2000-072883/06.
DR N-PSDB; AAZ65001.
XX
PT Membrane-bound proteins and related nucleotide sequences -
XX
PS claim 12; Fig 99; 822pp; English.
XX
CC The invention provides membrane-bound PRO polypeptides and
CC polynucleotides encoding them. The PRO sequences of the invention were
CC identified based on extracellular domain homology screening. The PRO
CC sequences have homology with proteins including LDL receptors, TIE
CC ligands and various enzymes. The membrane-bound proteins and receptor
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
CC immunoadhesins, for instance, can be used as therapeutic agents to block
CC receptor-ligand interactions. The membrane-bound proteins can also be
CC employed for screening of potential peptide or small molecule inhibitors
CC of the relevant receptor/ligand interaction. The PRO encoding sequences
CC are useful as hybridization probes, in chromosome and gene mapping and in
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences
CC will also be useful for the preparation of PRO polypeptides, especially
CC by recombinant techniques.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 21; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

RESULT 5
AAU29093
ID AAU29093 standard; Protein; 119 AA.
XX
AC AAU29093;
XX
DT 18-DEC-2001 (first entry)
XX
DE Human PRO polypeptide sequence #70.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX
OS Homo sapiens.
XX
PN WO200168848-A2.
XX

0-SEP-2001.

8-FEB-2001; 2001WO-US06520.

1-MAR-2000; 2000WO-US05601.
2-MAR-2000; 2000WO-US05841.
3-MAR-2000; 2000US-187202P.
6-MAR-2000; 2000US-186968P.
4-MAR-2000; 2000US-189320P.
4-MAR-2000; 2000US-189328P.
5-MAR-2000; 2000WO-US06884.
1-MAR-2000; 2000US-190828P.
1-MAR-2000; 2000US-191007P.
1-MAR-2000; 2000US-191048P.
1-MAR-2000; 2000US-191314P.
8-MAR-2000; 2000US-192655P.
9-MAR-2000; 2000US-193032P.
9-MAR-2000; 2000US-193053P.
0-MAR-2000; 2000WO-US08439.
4-APR-2000; 2000US-194449P.
4-APR-2000; 2000US-194647P.
1-APR-2000; 2000US-195975P.
1-APR-2000; 2000US-196000P.
1-APR-2000; 2000US-196187P.
1-APR-2000; 2000US-196690P.
1-APR-2000; 2000US-196820P.
8-APR-2000; 2000US-198121P.
8-APR-2000; 2000US-198585P.
5-APR-2000; 2000US-199397P.
5-APR-2000; 2000US-199550P.
5-APR-2000; 2000US-199654P.
3-MAY-2000; 2000US-201516P.
7-MAY-2000; 2000WO-US13705.
2-MAY-2000; 2000WO-US14042.
0-MAY-2000; 2000WO-US14941.
2-JUN-2000; 2000WO-US15264.
5-JUN-2000; 2000US-209832P.
8-JUL-2000; 2000WO-US20710.
2-AUG-2000; 2000US-0644848.
4-AUG-2000; 2000WO-US23328.
8-NOV-2000; 2000WO-US30952.
1-DEC-2000; 2000WO-US32678.
0-DEC-2000; 2000WO-US34956.

(GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2001-602746/68.
N-PSDB; AAS45994.

Novel nucleic acids encoding PRO polypeptides, used to diagnose the presence of tumours, such as prostate and breast tumours, in mammals and to screen for modulators of the compounds -

Claim 11; Fig 140; 774pp; English.

Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention. The PRO polypeptides and their associated nucleic acids can be used to detect the presence of a tumour in a mammal by comparing the level of expression of a PRO polypeptide in a test sample of cells from the animal and a control sample of normal cells, whereby a higher level of expression in the test sample indicates the presence of a tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human blood, when contacted with it. A specific polypeptide can be used to stimulate the proliferation or differentiation of chondrocyte cells. The PRO proteins can be used to determine the presence of tumours and also susceptibility to tumour development, particularly adrenal, lung, colon, breast, prostate, rectal, cervical, or liver tumours, in mammalian subjects. The oligonucleotide probes specific for the PRO nucleic acids

CC can be used for genetic analysis of individuals with genetic disorders.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 22; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
Db 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
Db 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119

RESULT 6
AAG63977
ID AAG63977 standard; Protein; 119 AA.
XX
AC AAG63977;
XX
DT 13-NOV-2001 (first entry)
XX
DE Amino acid sequence of a human Lng104 polypeptide.
XX
KW Human; lung cancer specific gene; LSG; Lng104; lung cancer.
XX
OS Homo sapiens.
XX
PN WO200161055-A2.
XX
PD 23-AUG-2001.
XX
PF 20-FEB-2001; 2001WO-US05674.
XX
PR 17-FEB-2000; 2000US-0183188.
XX
PA (DIAD-) DIADEXUS INC.
XX
PI Chen S, Sun Y, Macina RA;
XX
DR WPI; 2001-529917/58.
DR N-PSDB; AAH77949, AAH77951.
XX
PT New lung cancer specific gene for the treatment and diagnosis of lung
PT cancer -
XX
PS Claim 2; Page 115-116; 119pp; English.
XX
CC The present sequence is encoded by a human lung cancer specific gene
CC (LSG), and represents a polypeptide designated Lng104. LSGs are useful
CC in the treatment and diagnosis of lung cancer. The treatment of lung
CC cancer comprises the administration of a molecule which down regulates
CC the expression of an LSG. An immune response can be mounted against a
CC target cell expressing an LSG. Identification of potential therapeutic
CC agents for use in imaging and treating lung cancer which comprises
CC screening molecules for an ability to bind to or decrease expression
CC of an LSG relative to LSG in the absence of the agent where the ability
CC of a molecule to bind to the LSG or decrease expression of the LSG is
CC indicative of the molecule being useful in imaging and treating lung
CC cancer.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 22; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
Db 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

```
      61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
      61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

```
;T 7
'538
AAB87538 standard; Protein; 119 AA.

AAB87538;

15-MAY-2001  (first entry)

Human PRO842.

Human; PRO protein; mapping.

Homo sapiens.

WO200116318-A2.

08-MAR-2001.

24-AUG-2000; 2000WO-US23328.

01-SEP-1999;   99WO-US20111.
15-SEP-1999;   99WO-US21090.
07-DEC-1999;   99US-0169495.
09-DEC-1999;   99US-0170262.
11-JAN-2000; 2000US-0175481.
18-FEB-2000; 2000WO-US04341.
18-FEB-2000; 2000WO-US04342.
22-FEB-2000; 2000WO-US04414.
01-MAR-2000; 2000WO-US05601.
03-MAR-2000; 2000US-0187202.
25-APR-2000; 2000US-0199397.
22-MAY-2000; 2000WO-US14042.
05-JUN-2000; 2000US-0209832.

(GETH ) GENENTECH INC.

Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
Grimaldi CJ, Gurney AL, Watanabe CK, Wood WI;

WPI; 2001-183260/18.
N-PSDB; AAF92070.

Eighty four nucleic acids encoding PRO polypeptides, useful in
molecular biology, including use as hybridization probes, and in
chromosome and gene mapping. -

Claim 12; Fig 26; 278pp; English.

The present sequence is a human PRO polypeptide (secreted and
transmembrane). The PRO protein, and PRO agonists, PRO antagonists or
anti-PRO antibodies are useful for preparation of a medicament useful in
the treatment of a condition which is responsive to the PRO protein,
agonists, antagonists or anti-PRO antibodies. The PRO protein may also be
employed as molecular weight markers for protein electrophoresis. The PRO
coding sequence has applications in molecular biology, including use as
hybridisation probes, and in chromosome and gene mapping.

Sequence   119 AA;

iery Match            100.0%;  Score 119;  DB 22;  Length 119;
:st Local Similarity   100.0%;  Pred. No. 3.3e-110;
itches  119;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

        1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
        1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
```

```
Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

```
RESULT 8
AAB65191
ID   AAB65191 standard; Protein; 119 AA.
XX
AC   AAB65191;
XX
DT   02-APR-2001  (first entry)
XX
DE   Human PRO842 (UNQ473) protein sequence SEQ ID NO:165.
XX
KW   Human; secreted and transmembrane protein; PRO; cytostatic;
KW   cell death; cancer; chromosomal mapping; gene mapping; tissue typing;
KW   diagnostic assay.
XX
OS   Homo sapiens.
XX
PN   WO200073454-A1.
XX
PD   07-DEC-2000.
XX
PF   30-MAR-2000; 2000WO-US08439.
XX
PR   02-JUN-1999;   99WO-US12252.
PR   23-JUN-1999;   99US-0141037.
PR   07-JUL-1999;   99US-0143048.
PR   20-JUL-1999;   99US-0144758.
PR   26-JUL-1999;   99US-0145698.
PR   28-JUL-1999;   99US-0146222.
PR   17-AUG-1999;   99US-0149396.
PR   15-SEP-1999;   99WO-US21090.
PR   15-SEP-1999;   99WO-US21547.
PR   08-OCT-1999;   99US-0158663.
PR   30-NOV-1999;   99WO-US28313.
PR   01-DEC-1999;   99WO-US28301.
PR   16-DEC-1999;   99WO-US30095.
PR   20-DEC-1999;   99WO-US30911.
PR   05-JAN-2000; 2000WO-US00219.
PR   06-JAN-2000; 2000WO-US00376.
PR   11-FEB-2000; 2000WO-US03565.
PR   18-FEB-2000; 2000WO-US04341.
PR   22-FEB-2000; 2000WO-US04414.
PR   24-FEB-2000; 2000WO-US04914.
PR   24-FEB-2000; 2000WO-US05004.
PR   02-MAR-2000; 2000WO-US05841.
PR   15-MAR-2000; 2000WO-US06884.
PR   20-MAR-2000; 2000WO-US07377.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Baker KP,  Botstein D,  Desnoyers L,  Eaton DL;
PI   Ferrara N,  Fong S,  Gerber H,  Gerritsen ME,  Goddard A,  Godowski PJ;
PI   Grimaldi CJ,  Gurney AL,  Kljavin IJ,  Napier MA,  Pan J,  Paoni NF;
PI   Roy MA,  Stewart TA,  Tumas D,  Watanabe CK,  Williams PM,  Wood WI;
PI   Zhang Z;
XX
DR   WPI; 2001-032160/04.
DR   N-PSDB; AAF44147.
XX
PT   PRO polynucleotides used to produce polypeptides used to target
PT   bioactive molecules such as toxins, radiolabels or antibodies, to
PT   specific cells, to cause targeted cell death -
XX
PS   Claim 12; Fig 99; 935pp; English.
XX
CC   The present invention describes human secreted and transmembrane PRO
CC   proteins. The PRO proteins have cytostatic activity. The PRO proteins
CC   can be used for targeted delivery of bioactive molecules, such as
CC   toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
```

equences, and their fragments, can be used as hybridisation probes, in hromosomal and gene mapping, and in the generation of anti-sense RNA nd DNA. They may also be used to produce transgenic animals which are sed to develop and screen therapeutically useful reagents. The PRO ucleotide and protein sequence can be used for tissue typing and in reating cancer. Anti-PRO antibodies can be used in diagnostic assays. AF44270 to AAF44470 represent PCR primers and hybridisation probes used n the isolation of human PRO sequences. AAF44087 to AAF44269 and AB65154 to AAB65300 represent human PRO polynucleotide and protein equences given in the exemplification of the present invention.

equence 119 AA;

y Match 100.0%; Score 119; DB 22; Length 119;
Local Similarity 100.0%; Pred. No. 3.3e-110;
hes 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

: 9
931
ABP54931 standard; Protein; 119 AA.

ABP54931;

)8-JAN-2003 (first entry)

Human cytokine PRO842 (CK27).

PRO842; CK27; chemokine; human; antiinflammatory; dermatological; hepatotropic; antiallergic; antiasthmatic; immunosuppressive; antithyroid; antidiabetic; antianaemic; haemostatic; antipsoriatic; antirheumatic; antiarthritic; nephrotropic.

Homo sapiens.

Key	Location/Qualifiers
Peptide	1..22
	/label= Signal_peptide
Protein	23..119
	/label= Mature_protein
Modified-site	27..32
	/note= "potential N-myristoylation site"
Modified-site	39..41
	/note= "potential protein kinase C phosphorylation site"
Modified-site	46..51
	/note= "potential N-myristoylation site"

WO200270706-A2.

12-SEP-2002.

07-DEC-2001; 2001WO-US48060.

28-FEB-2001; 2001WO-US06520.
28-AUG-2001; 2001US-0941992.

(GETH) GENENTECH INC.

French D, Grimaldi JC, Hilian KJ, Pisabarro MT, Schmidt KN; Smith V, Tumas D, Vandlen RL, Watanabe CK, Williams PM, Wood WI;

WPI; 2002-750461/81.
N-PSDB; ABV73914.

PT New PRO842 polypeptides having structural homology to interleukin-8,
PT useful for treating or diagnosing a mammal with an inflammatory disease
PT or immune related disease, e.g. rheumatoid arthritis, osteoarthritis or
PT allergic disease -
XX
PS Claim 1; Fig 2; 118pp; English.
XX
CC The present sequence is the protein sequence of PRO842 (CK27),
CC a novel human chemokine (mol.wt. 13.8 kDa, pI 11.16) having
CC structural homology to interleukin-8. Microarray analysis has
CC shown PRO842 to be over-expressed in colon tumour, lung tumour and
CC breast tumour cells compared with non-cancerous human tissue,
CC making it a useful diagnostic marker for cancerous tumours and a
CC therapeutic target. PRO842 also plays a role in the inflammatory
CC response, having chemoattractant properties toward monocytes and
CC dendritic cells. The invention provides PRO842 polypeptides,
CC polynucleotides, host cells, vectors and antibodies, as well as
CC methods of treating an immune related disorder by using a PRO842
CC polypeptide, or an agonist, antagonist or antibody. The immune
CC related disorder may be systemic lupus erythematosus, rheumatoid
CC arthritis, osteoarthritis, juvenile chronic arthritis,
CC spondyloarthropathy, systemic sclerosis, idiopathic inflammatory
CC myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis,
CC autoimmune haemolytic anaemia, autoimmune thrombocytopaenia,
CC thyroiditis, diabetes mellitus, immune-mediated renal disease,
CC demyelinating disease of the central or peripheral nervous system,
CC idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome,
CC chronic inflammatory demyelinating polyneuropathy, hepatobiliary
CC disease, infectious or autoimmune chronic active hepatitis, primary
CC biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
CC inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
CC disease, an autoimmune or immune-mediated skin disease, a bullous
CC skin disease, erythema multiforme, contact dermatitis, psoriasis,
CC an allergic disease, asthma, allergic rhinitis, atopic dermatitis,
CC food hypersensitivity, urticaria, an immunologic disease of the
CC ovaries, an immunologic disease of the lung, eosinophilic
CC pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
CC pneumonitis, a transplantation associated disease, graft rejection
CC or graft-versus-host-disease (all claimed).
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 23; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

RESULT 10
ABG95863
ID ABG95863 standard; Protein; 119 AA.
XX
AC ABG95863;
XX
DT 10-DEC-2002 (first entry)
XX
DE Human secreted/transmembrane protein PRO842.
XX
KW Human; secreted protein; transmembrane protein; antirheumatic;
KW antiarthritic; osteopathic; sports-related joint problem;
KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.
XX
OS Homo sapiens.
XX
PN US2002119130-A1.
XX

29-AUG-2002.

06-DEC-2001; 2001US-0006867.

29-OCT-1997; 97US-063435P.
29-OCT-1997; 97US-064215P.
22-APR-1998; 98US-082797P.
29-APR-1998; 98US-083495P.
15-MAY-1998; 98US-085579P.
10-JUN-1998; 98US-088811P.
10-JUN-1998; 98US-088824P.
10-JUN-1998; 98US-088825P.
11-JUN-1998; 98US-088863P.
12-JUN-1998; 98US-089105P.
16-JUN-1998; 98US-089514P.
16-SEP-1998; 98WO-US19330.
08-MAR-1999; 99WO-US05028.
14-MAY-1999; 99WO-US10733.
02-JUN-1999; 99WO-US12252.
01-SEP-1999; 99WO-US20111.
15-SEP-1999; 99WO-US21090.
15-SEP-1999; 99WO-US21194.
22-DEC-1999; 99WO-US30720.
18-FEB-2000; 2000WO-US04341.
18-FEB-2000; 2000WO-US04342.
30-MAR-2000; 2000WO-US08439.
22-MAY-2000; 2000WO-US14042.
02-JUN-2000; 2000WO-US15264.
23-AUG-2000; 2000WO-US23522.
24-AUG-2000; 2000WO-US23328.
10-NOV-2000; 2000WO-US30873.
01-DEC-2000; 2000WO-US32378.
20-DEC-2000; 2000WO-US34956.
28-FEB-2001; 2001WO-US06520.
20-JUN-2001; 2001WO-US19692.
29-JUN-2001; 2001WO-US21066.
09-JUL-2001; 2001WO-US21735.

(GETH) GENENTECH INC.

Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;

WPI; 2002-731348/79.
N-PSDB; ABS74390.

New isolated secreted and transmembrane PRO polypeptide useful for modulating biological activity of a cell, or for treating sports-related joint problems, osteoarthritis or rheumatoid arthritis

Claim 20; Fig 26; 399pp; English.

The invention relates to an isolated secreted and transmembrane PRO polypeptide having 80 % sequence identity to a sequence appearing as ABG95851-ABG95934 or their associated signal peptide, or a sequence of an extracellular domain of the proteins with their associated signal peptide or lacking its associated signal peptide. Also included are the nucleic acids encoding the proteins, vectors, host cells, fusion proteins and antibodies which specifically bind to the proteins. The proteins are useful for detecting a polypeptide designated as A, B, C or D in a sample suspected of containing an A, B, C or D polypeptide, by contacting the sample with a polypeptide designated as E, F, G, H or I (or vice versa) and determining the formation of a A/E, B/F, B/G, C/H or D/I polypeptide conjugate in the sample, where the formation of the conjugate is indicative of the presence of an A, B, C or D polypeptide in the sample, where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5801 polypeptide, F is a PRO1 polypeptide, G is a PRO20040 polypeptide, H is a PRO20233 polypeptide and I is a PRO1890 polypeptide. The sample comprises a cell suspected of expressing the A, B, C or D polypeptide. The E, F, G, H or I polypeptide is labeled with a detectable label or is attached to a solid support. The proteins are useful for linking a bioactive molecule to a cell expressing a

CC polypeptide designated as A, B, C or D or E, F, G, H or I. The bioactive
CC molecule is a toxin, a radiolabel or an antibody. The bioactive molecule
CC causes death of the cell. A, B, C, D, E, F, G, H, or I, or antibodies
CC against them are useful for modulating a biological activity of a cell
CC expressing a polypeptide designated as A, B, C or D or E, F, G, H, or
CC I. The cell is killed. The proteins are useful for identifying
CC agonists or antagonists, for the preparation of a medicament useful in
CC the treatment of a condition which is responsive to the proteins, as
CC molecular weight markers for protein electrophoresis purposes, and as
CC therapeutic agents for treating sports-related joint problems,
CC articular cartilage defects, osteoarthritis or rheumatoid arthritis.
CC Nucleic acids encoding the proteins are useful as hybridisation probes,
CC in chromosome and gene mapping, in the generation of anti-sense RNA and
CC DNA, for the preparation of the proteins, to generate transgenic or
CC knockout animals which are useful in the development and screening of
CC therapeutic useful reagents, for chromosome identification, and in gene
CC therapy. The antibody is useful as a therapeutic agent, in a diagnostic
CC assay and for affinity purification of the protein from recombinant
CC cell culture natural sources. The present sequence represents a novel
CC secreted or transmembrane protein of the invention.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 23; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
```

RESULT 11
ABU71181
ID ABU71181 standard; Protein; 119 AA.
XX
AC ABU71181;
XX
DT 10-JUN-2003 (first entry)
XX
DE Human PRO842 protein.
XX
KW Human; PRO; secreted; transmembrane; cytostatic; TNF-alpha; blood;
KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
KW differentiation; tumour; gene therapy.
XX
OS Homo sapiens.
XX
PN US2003036143-A1.
XX
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-0187600.
XX
PR 16-SEP-1998; 98WO-US19330.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 08-MAR-1999; 99WO-US05028.
PR 14-MAY-1999; 99WO-US10733.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 15-SEP-1999; 99WO-US21090.
PR 01-DEC-1999; 99WO-US28301.
PR 02-DEC-1999; 99WO-US28551.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.

14-FEB-2000; 2000WO-US05004.
01-MAR-2000; 2000WO-US05601.
02-MAR-2000; 2000WO-US05841.
15-MAR-2000; 2000WO-US06884.
30-MAR-2000; 2000WO-US08439.
17-MAY-2000; 2000WO-US13705.
12-MAY-2000; 2000WO-US14042.
10-MAY-2000; 2000WO-US14941.
02-JUN-2000; 2000WO-US15264.
18-JUL-2000; 2000WO-US20710.
14-AUG-2000; 2000WO-US23328.
08-NOV-2000; 2000WO-US30952.
01-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US34956.
28-FEB-2001; 2001WO-US06520.
01-JUN-2001; 2001WO-US17800.
20-JUN-2001; 2001WO-US19692.
29-JUN-2001; 2001WO-US21066.
09-JUL-2001; 2001WO-US21735.
29-AUG-2001; 2001WO-US27099.
18-SEP-1997; 97US-059263P.
18-SEP-1997; 97US-059266P.
17-OCT-1997; 97US-062250P.
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28-OCT-1997; 97US-063540P.
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28-OCT-1997; 97US-063544P.
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11-DEC-1997; 97US-069335P.
12-DEC-1997; 97US-069425P.
17-DEC-1997; 97US-069870P.
18-DEC-1997; 97US-068017P.
10-MAR-1998; 98US-077450P.
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31-MAR-1998; 98US-080194P.
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21-APR-1998; 98US-082569P.
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22-APR-1998; 98US-082797P.
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29-APR-1998; 98US-083495P.
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29-APR-1998; 98US-083559P.
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06-MAY-1998; 98US-084414P.
07-MAY-1998; 98US-084639P.
07-MAY-1998; 98US-084640P.
07-MAY-1998; 98US-084643P.
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PR 03-JUN-1998; 98US-087827P.
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PR 25-JUN-1998; 98US-090695P.
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PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
PR 26-JUN-1998; 98US-091010P.
PR 01-JUL-1998; 98US-091359P.
PR 01-JUL-1998; 98US-091544P.
PR 02-JUL-1998; 98US-091478P.
PR 02-JUL-1998; 98US-091486P.
PR 02-JUL-1998; 98US-091626P.
PR 02-JUL-1998; 98US-091628P.
PR 02-JUL-1998; 98US-091632P.
PR 24-JUL-1998; 98US-094006P.
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PR 17-AUG-1998; 98US-096897P.

18-AUG-1998; 98US-096949P.
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26-AUG-1998; 98US-097954P.
26-AUG-1998; 98US-097955P.
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26-AUG-1998; 98US-097974P.
26-AUG-1998; 98US-098014P.
01-SEP-1998; 98US-098716P.
01-SEP-1998; 98US-098723P.
02-SEP-1998; 98US-098803P.
02-SEP-1998; 98US-098821P.
02-SEP-1998; 98US-098843P.
09-SEP-1998; 98US-099602P.
10-SEP-1998; 98US-099741P.
10-SEP-1998; 98US-099754P.
10-SEP-1998; 98US-099763P.
10-SEP-1998; 98US-099812P.

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t Local Similarity 100.0%; Pred. No. 3.3e-110;
ches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
Db 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
Db 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119

LT 12
l518
ABU71518 standard; Protein; 119 AA.

ABU71518;

10-JUN-2003 (first entry)

Human secreted polypeptide PRO842.

Human; gene therapy; tumour; cancer.

Homo sapiens.

US2003013855-A1.

16-JAN-2003.

03-MAY-2002; 2002US-0063616.

30-DEC-1998; 98KR-0062142.
08-MAR-1999; 99WO-US05028.
14-MAY-1999; 99WO-US10733.
30-DEC-1999; 99WO-US31274.
18-FEB-2000; 2000WO-US04341.
01-MAR-2000; 2000WO-US05601.
02-MAR-2000; 2000WO-US05841.
21-MAR-2000; 2000WO-US07532.
22-MAY-2000; 2000WO-US14042.
02-JUN-2000; 2000WO-US15264.
24-AUG-2000; 2000WO-US23328.
10-NOV-2000; 2000WO-US30873.
01-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US34956.
28-FEB-2001; 2001WO-US06520.
01-JUN-2001; 2001WO-US17800.
14-MAY-1999; 99US-0311832.
25-AUG-1999; 99US-0380137.
25-AUG-1999; 99US-0380138.
25-AUG-1999; 99US-0380139.
PR 25-AUG-1999; 99US-0380142.
PR 15-SEP-1999; 99US-0397342.
PR 18-OCT-1999; 99US-0403297.
PR 12-NOV-1999; 99US-0423844.
PR 22-AUG-2000; 2000US-0644848.
PR 18-SEP-2000; 2000US-0664610.
PR 18-SEP-2000; 2000US-0665350.
PR 08-NOV-2000; 2000US-0709238.
PR 20-DEC-2000; 2000US-0747259.
PR 22-MAR-2001; 2001US-0816744.
PR 10-MAY-2001; 2001US-0854208.
PR 10-MAY-2001; 2001US-0854280.
PR 30-MAY-2001; 2001US-0870574.
PR 05-JUN-2001; 2001US-0874503.
PR 29-JUN-2001; 2001US-0869599.
PR 18-JUL-2001; 2001US-0908827.
PR 06-DEC-2001; 2001US-0006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-330485/31.
DR N-PSDB; ACA58922.
XX
PT New isolated antibody specifically binding a PRO polypeptide, useful
PT for the preparation of a medicament for treating disorders with the
PT aberrant expression or activity of the PRO polypeptide, such as tumor
PT conditions and cancer -
XX
PS Disclosure; Page 93; 406pp; English.
XX
CC The invention relates to an antibody that binds to a polypeptide with a
CC fully defined sequence given in the specification. The methods and
CC compositions (containing antibodies that specifically bind a PRO
CC polypeptide) of the present invention are useful for the preparation of a
CC medicament for the treatment of disorders associated with the aberrant
CC expression or activity of the PRO polypeptide, such as tumour conditions
CC and cancer. They can also be used to generate transgenic or knockout
CC animals useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC molecular weight markers for protein electrophoresis, chromosome
CC identification and tissue typing. The PRO polypeptides are useful to
CC induce angiogenesis e.g wound healing; in the treatment of sports-related
CC joint problems, articular cartilage defects, osteoarthritis or rheumatoid
CC arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The
CC antibodies may be used in various diagnostic, competitive binding and/or
CC immunoprecipitation assays. The present sequence represents the amino
CC acid sequence of a PRO polypeptide of the invention.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 24; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
Db 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
Db 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119

RESULT 13
ABU71964
ID ABU71964 standard; Protein; 119 AA.
XX
AC ABU71964;
XX
DT 11-JUN-2003 (first entry)

ovel human secreted and transmembrane protein PRO842.

uman; secreted and transmembrane polypeptide;
hromosome mapping; gene mapping; transgenic animal; knockout animal;
herapeutic agent screening; chromosome identification; tissue typing;
ene therapy.

omo sapiens.

S2003018183-A1.

3-JAN-2003.

1-MAY-2002; 2002US-0063512.

6-DEC-2001; 2001US-0006867.

GETH) GENENTECH INC.

:aton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
:rimaldi JC, Gurney AL, Watanabe CK, Wood WI;

!PI; 2003-330984/31.
I-PSDB; ACA60375.

lew secreted and transmembrane PRO polypeptides and nucleic acid
iolecules encoding the polypeptides, useful in gene therapy or
)reparing a medicament for treating a condition that is responsive to
:he PRO polypeptide or antibody -

)isclosure; Fig 26; 409pp; English.

:he invention describes novel isolated PRO polypeptides. The PRO
)olypeptides or anti-PRO antibodies are useful in preparing a medicament
:or treating a condition that is responsive to the PRO polypeptide or
intibody. The PRO nucleotide sequences may be used as hybridisation
)robes in chromosome and gene mapping, or in generating antisense RNA
ind DNA. PRO nucleic acids are also useful in preparing PRO polypeptides,
.n assays to identify other proteins or molecules involved in binding
:eaction, to generate transgenic animals or knockout animals, which in
:urn are useful in the development and screening of therapeutically
iseful reagents, for chromosome identification, and tissue typing. The
?RO polypeptides and nucleic acid molecules are also useful in gene
:herapy, and as molecular weight markers for protein electrophoresis
)urposes. The anti-PRO antibodies may be used in diagnostic assays for
?RO, or for the affinity purification of PRO from recombinant cell
:ulture or natural sources. This is the amino acid sequence of a novel
iuman secreted and transmembrane PRO poypeptide.

Sequence 119 AA;

ry Match 100.0%; Score 119; DB 24; Length 119;
: Local Similarity 100.0%; Pred. No. 3.3e-110;
:hes 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
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T 14
121
ABU72121 standard; Protein; 119 AA.

ABU72121;

13-JUN-2003 (first entry)

DE Human PRO polypeptide #13.
XX
KW Human; PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression.
XX
OS Homo sapiens.
XX
PN US2003023042-A1.
XX
PD 30-JAN-2003.
XX
PF 01-MAY-2002; 2002US-0063502.
XX
PR 06-DEC-2001; 2001US-0006867.
XX
PA (GETH) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2003-331484/31.
DR N-PSDB; ACA63385.
XX
PT Novel monoclonal antibody that binds to secreted and transmembrane
PT polypeptide, useful for detecting and purifying the polypeptide and
PT also for treating conditions responsive to the antibody -
XX
PS Disclosure; Fig 26; 408pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The
CC PRO polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a
CC medicament useful in the treatment of a condition responsive to
CC anti-PRO antibody. Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells,
CC tissues or serum, and for affinity purification of PRO from
CC recombinant cell culture or natural sources. ABU72109-ABU72192
CC represent the human PRO polypeptides of the invention.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 24; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
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RESULT 15
ABU65638
ID ABU65638 standard; Protein; 119 AA.
XX
AC ABU65638;
XX
DT 19-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein, SEQ ID 140.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW cytostatic; antiarthritic; osteopathic; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; TNF-alpha release; arthritis;
KW tumour necrosis factor alpha; chondrocyte cell; bone disorder;
KW cartilage disorder; sports injury.
XX
OS Homo sapiens.

US2003036156-A1.

20-FEB-2003.

02-JUL-2002; 2002US-0188767.

16-SEP-1998; 98WO-US19330.
07-OCT-1998; 98WO-US21141.
01-DEC-1998; 98WO-US25108.
08-MAR-1999; 99WO-US05028.
14-MAY-1999; 99WO-US10733.
02-JUN-1999; 99WO-US12252.
01-SEP-1999; 99WO-US20111.
15-SEP-1999; 99WO-US21090.
01-DEC-1999; 99WO-US28301.
02-DEC-1999; 99WO-US28551.
30-DEC-1999; 99WO-US31274.
05-JAN-2000; 2000WO-US00219.
18-FEB-2000; 2000WO-US04341.
18-FEB-2000; 2000WO-US04342.
22-FEB-2000; 2000WO-US04414.
24-FEB-2000; 2000WO-US05004.
01-MAR-2000; 2000WO-US05601.
02-MAR-2000; 2000WO-US05841.
15-MAR-2000; 2000WO-US06884.
30-MAR-2000; 2000WO-US08439.
17-MAY-2000; 2000WO-US13705.
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08-NOV-2000; 2000WO-US30952.
01-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US34956.
28-FEB-2001; 2001WO-US06520.
01-JUN-2001; 2001WO-US17800.
20-JUN-2001; 2001WO-US19692.
29-JUN-2001; 2001WO-US21066.
09-JUL-2001; 2001WO-US21735.
29-AUG-2001; 2001WO-US27099.
18-SEP-1997; 97US-059263P.
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11-DEC-1997; 97US-069335P.
12-DEC-1997; 97US-069425P.
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11-MAR-1998; 98US-077649P.
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31-MAR-1998; 98US-080107P.
31-MAR-1998; 98US-080194P.
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PR 08-APR-1998; 98US-081070P.
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PR 29-APR-1998; 98US-083559P.
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PR 06-MAY-1998; 98US-084414P.
PR 07-MAY-1998; 98US-084639P.
PR 07-MAY-1998; 98US-084640P.
PR 07-MAY-1998; 98US-084643P.
PR 15-MAY-1998; 98US-085579P.
PR 15-MAY-1998; 98US-085580P.
PR 15-MAY-1998; 98US-085582P.
PR 15-MAY-1998; 98US-085700P.
PR 18-MAY-1998; 98US-086023P.
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PR 28-MAY-1998; 98US-087098P.
PR 28-MAY-1998; 98US-087208P.
PR 02-JUN-1998; 98US-087609P.
PR 02-JUN-1998; 98US-087759P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088326P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
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971
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ABU65971;

20-MAY-2003  (first entry)

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Human; secreted protein; transmembrane protein; cytostatic;
gene Therapy; TNF-Agonist-Alpha; chondrocyte stimulator; tumour;
adrenal tumour; lung tumour; colon tumour; breast tumour;
prostate tumour; rectal tumour; cervical tumour; liver tumour.

Homo sapiens.

US2003036157-A1.

20-FEB-2003.

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DT 29-MAY-2003 (first entry)
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing.
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XX
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04-SEP-2001; 2001US-0946374.
15-JAN-2002; 2002US-0052586.

(GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL; Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-332039/31.
N-PSDB; ACA05769.

New secreted and transmembrane PRO polypeptides and nucleic acids,
PT useful in gene therapy, in chromosome and gene mapping, as chromosome
PT markers, in tissue typing, and in chromosome identification -
XX
PS Claim 11; Fig 140; 706pp; English.
XX
CC The invention discloses human nucleic acids encoding secreted and
CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that
CC specifically binds to the PRO polypeptide, a method for stimulating the
CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by
CC contacting the blood a PRO polypeptide, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells by contacting the
CC cells with a PRO polypeptide, a method for detecting the presence of a
CC tumour in a mammal and an oligonucleotide probe derived from any of the
CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,
CC in chromosome and gene mapping, in generating antisense RNA and DNA, in
CC preparing PRO polypeptides by recombinant techniques and in gene therapy
CC (e.g. for replacement of defective gene). The PRO polypeptides are useful
CC as molecular weight markers for protein electrophoresis purposes, for
CC chromosome identification, as chromosome markers, as therapeutic agents,
CC for stimulating the release of TNF-alpha from human blood, for
CC stimulating the proliferation or differentiation of chondrocytes and
CC detecting the presence of a tumour. The PRO polypeptides and nucleic
CC acids may also be used diagnostically for tissue typing. The sequences
CC presented in ABU67406-ABU67710 are the PRO polypeptides of the invention.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 24; Length 119;
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DT 16-MAY-2003 (first entry)
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KW protein electrophoresis; tumour necrosis factor-alpha; TNF-alpha; blood;
KW chondrocyte differentiation; chondrocyte proliferation; tumour.
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OS Homo sapiens.
XX
PN US2003032102-A1.
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PD 13-FEB-2003.
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T 19
084
ABU59084 standard; Protein; 119 AA.

ABU59084;

28-APR-2003 (first entry)

Novel human secreted or transmembrane protein PRO842.

Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; retinal neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinitis pigmentosum; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.

Homo sapiens.

US2002132252-A1.

19-SEP-2002.

14-NOV-2001; 2001US-0990442.

05-NOV-1997; 97WO-US20069.
16-SEP-1998; 98WO-US19330.
17-SEP-1998; 98WO-US19437.
07-OCT-1998; 98WO-US21141.
01-DEC-1998; 98WO-US25108.
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08-MAR-1999; 99WO-US05028.

PR 02-JUN-1999; 99WO-US12252.
PR 15-SEP-1999; 99WO-US21090.
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18-JUN-1998;   98US-089907P.
18-JUN-1998;   98US-089908P.
28-AUG-2001; 2001US-0941992.

(GETH ) GENENTECH INC.

Ashkenazi AJ,  Baker KP,  Botstein D,  Desnoyers L,  Eaton DL;
Ferrara N,  Fong S,  Gerber H,  Gerritsen ME,  Goddard A,  Godowski PJ;
Grimaldi JC,  Gurney AL,  Kljavin IJ,  Napier MA,  Pan J,  Paoni NF;
Roy MA,  Stewart TA,  Tumas D,  Watanabe CK,  Williams PM,  Wood WI;
Zhang Z;

WPI; 2003-247083/24.
N-PSDB; ABX80231.

Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
are therapeutically useful for enhancing immune response and in cancer
treatments  -

Claim 12; Fig 99; 648pp; English.

The invention describes an isolated human PRO polypeptide. The PRO
polypeptides are useful in detecting PRO polypeptides in a sample, in
linking a bioactive molecule to a cell expressing a PRO polypeptide, and
in modulating at least one biological activity of a cell expressing a PRO
polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
stimulate adrenal cortical capillary endothelial growth, and PRO536,
PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
useful for treating conditions or disorders where angiogenesis would be
beneficial, e.g. wound healing and antagonist of this polypeptide are
useful for treating cancerous tumours. PRO812 inhibits vascular
endothelial growth factor (VEGF) stimulated proliferation of endothelial
cells and is thus useful for inhibiting endothelial cell growth in
mammals which would be beneficial in inhibiting tumour growth. PRO826,
PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
stimulated T-lymphocytes and are therapeutically useful for enhancing
immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
retinal neurons cells (PRO1132 is also enhances survival/proliferation of
rod photoreceptor cells) and therefore are useful for treating retinal
disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813
and PRO11066 induce proliferation of mammalian kidney mesangial cells,
and therefore are useful for treating kidney disorders associated with
decreased mesangial cell function such as Berger disease or other
nephropathies associated with dermatitis, herpetiformis or Crohn's
disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
proliferation and/or redifferentiation of chondrocytes in culture and
are thus useful for treating sports injuries, and arthritis. This
is the amino acid sequence of a novel human PRO protein.

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DT   22-APR-2003  (first entry)
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KW   diagnostic; biosensor; bioreactor; tumour; therapeutic;
KW   gene therapy; tumour-associated antigenic target; TAT; ADEPT;
KW   antibody-dependent enzyme mediated prodrug therapy; cytostatic.
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OS   Homo sapiens.
XX
PN   US2003027162-A1.
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PD   06-FEB-2003.
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PF   15-NOV-2001; 2001US-0997428.
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PR   08-MAR-1999;   99WO-US05028.
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ABU59380 standard; Protein; 119 AA.

ABU59380;

22-APR-2003 (first entry)

Novel human secreted or transmembrane protein PRO839.

Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; retinal neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinitis pigmentosum; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.

Homo sapiens.

US2003027985-A1.

06-FEB-2003.

14-NOV-2001; 2001US-0990562.

05-NOV-1997; 97WO-US20069.
16-SEP-1998; 98WO-US19330.
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515
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XX
DE   Human secreted/transmembrane protein, #61.
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KW   Human; PRO; secreted; transmembrane; signal peptide;
KW   pharmaceutical; diagnostic; therapeutic; gene therapy.
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OS   Homo sapiens.
XX
PN   US2002160384-A1.
XX
PD   31-OCT-2002.
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PF   14-NOV-2001; 2001US-0992598.
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PR   16-DEC-1999;   99WO-US30095.
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PR   06-JAN-2000; 2000WO-US00376.
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PR   20-MAR-1998;   98US-078910P.
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PR   07-MAY-1998;   98US-084600P.
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04-JUN-1998; 98US-088021P.
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28-AUG-2001; 2001US-0941992.

(GETH) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL; Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ; Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF; Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI; Zhang Z;

WPI; 2003-288106/28.
N-PSDB; ABX90209.

New transmembrane polypeptides and nucleic acids encoding the polypeptides, useful in gene therapy, in chromosome identification, as chromosome markers, or in generating probes -

Claim 12; Fig 99; 650pp; English.

The invention discloses isolated PRO secreted/transmembrane polypeptides comprising a sequence without signal peptide and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bioactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. The PRO polypeptides or polynucleotides are also useful in gene therapy, in chromosome identification, as chromosome markers, or in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The sequences presented in ABU60478-ABU60624 are the PRO polynucleotides of the invention. Note: The sequence data for this patent is also available in electronic

CC format from USPTO at seqdata.uspto.gov/sequence.html.
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Query Match 100.0%; Score 119; DB 24; Length 119;
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RESULT 23
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KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
KW antibody-dependent enzyme mediated prodrug therapy.
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OS Homo sapiens.
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XX
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LT 24
8469
ABU58469 standard; Protein; 119 AA.

ABU58469;

15-APR-2003 (first entry)

Human PRO polypeptide #70.

Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver; dog; cat; cow; horse; sheep; pig; goat; rabbit; ADEPT; antibody-dependent enzyme mediated prodrug therapy.

Homo sapiens.

US2003027272-A1.

06-FEB-2003.

21-JUN-2002; 2002US-0176492.

16-SEP-1998; 98WO-US19330.
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DT   16-APR-2003  (first entry)
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KW   Human; PRO; secreted; transmembrane; signal peptide;
KW   pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
KW   colon cancer; lung cancer; breast cancer;cancer; gene therapy.
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OS   Homo sapiens.
XX
PN   US2002142961-A1.
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PD   03-OCT-2002.
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PF   19-NOV-2001; 2001US-0989721.
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28-AUG-2001; 2001US-0941992.

(GETH) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
Zhang Z;

WPI; 2003-155950/15.

New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184, PRO361 or PRO846) useful as targets for therapeutic intervention in cancers (e.g. lung or breast cancers), or for diagnosing these cancers
-

Claim 12; Fig 99; 647pp; English.

The invention discloses isolated PRO secreted/transmembrane polypeptides comprising a sequence without signal peptide and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that

CC specifically bind to the PRO polypeptide, for linking a bioactive
CC molecule to a cell expressing a PRO protein and for modulating at least
CC one biological activity of a cell. The PRO polypeptides or
CC polynucleotides are also useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors, for detecting or treating e.g. tumours in
CC mammals, e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats or
CC rabbits as targets for therapeutic intervention in certain cancers (e.g.
CC colon, lung or breast cancers) and diagnostic determination of the
CC presence of these cancers. The PRO polypeptides are also useful as
CC molecular weight markers or for chromosome identification. The PRO genes
CC are useful as hybridisation probes or for screening libraries of human
CC cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene
CC therapy, particularly for replacing a defective gene. The sequences
CC presented in ABU58900-ABU59046 are the PRO polypeptides of the invention.
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SQ Sequence 119 AA;

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ID ABU56005 standard; Protein; 119 AA.
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DT 26-MAR-2003 (first entry)
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KW Human; secreted protein; transmembrane protein; PRO;
KW antiarthritic; vulnerary; tumour necrosis factor-alpha;
KW chondrocyte cell proliferation; chondrocyte cell differentiation;
KW tumour; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour;
KW bone disorder; cartilage disorder; arthritis; sports injury.
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OS Homo sapiens.
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PN US2003022298-A1.
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PD 30-JAN-2003.
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)2-MAR-2000; 2000WO-US05841.
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02-JUN-2000; 2000WO-US15264.
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ABU57000;

04-APR-2003 (first entry)

Human PRO polypeptide #70.

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Homo sapiens.

US2003027280-A1.

06-FEB-2003.

20-JUN-2002; 2002US-0176993.

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RESULT 28
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KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive.
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XX
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04-JUN-1998; 98US-088033P.
04-JUN-1998; 98US-088326P.
05-JUN-1998; 98US-088167P.
05-JUN-1998; 98US-088202P.
05-JUN-1998; 98US-088212P.
05-JUN-1998; 98US-088217P.
09-JUN-1998; 98US-088655P.
10-JUN-1998; 98US-088734P.
10-JUN-1998; 98US-088738P.
10-JUN-1998; 98US-088742P.
10-JUN-1998; 98US-088810P.
10-JUN-1998; 98US-088824P.
10-JUN-1998; 98US-088826P.
11-JUN-1998; 98US-088858P.
11-JUN-1998; 98US-088861P.
11-JUN-1998; 98US-088876P.
12-JUN-1998; 98US-089105P.
16-JUN-1998; 98US-089440P.
16-JUN-1998; 98US-089512P.
16-JUN-1998; 98US-089514P.
17-JUN-1998; 98US-089532P.
17-JUN-1998; 98US-089538P.
17-JUN-1998; 98US-089598P.
17-JUN-1998; 98US-089599P.
17-JUN-1998; 98US-089600P.
17-JUN-1998; 98US-089653P.
18-JUN-1998; 98US-089801P.
18-JUN-1998; 98US-089907P.
18-JUN-1998; 98US-089908P.
28-AUG-2001; 2001US-0941992.

(GETH) GENENTECH LTD.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
Zhang Z;

XX
DR WPI; 2003-102117/09.
DR N-PSDB; ABX64055.
XX
PT Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers -
XX
PS Claim 12; Fig 99; 649pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The
CC PRO polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for
CC linking bioactive molecules to cells expressing PRO polypeptides,
CC for modulating biological activities of cells expressing PRO
CC polypeptides, and for for identifying agonists or antagonists.
CC The polynucleotide sequences encoding PRO polypeptides are useful as
CC hybridisation probes, in chromosome and gene mapping, in the generation
CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for
CC generating transgenic animals or knockout animals, to construct
CC hybridisation probes for mapping the gene which encodes the PRO
CC polypeptide, and for the genetic analysis of individuals with genetic
CC disorders, in gene therapy, for chromosome identification, as
CC chromosome markers, and for generating probes for PCR, Northern
CC analysis, Southern analysis and Western analysis. ABU13860-ABU14006
CC represent the human PRO polypeptides of the invention.
CC Note: The sequence data for this patent was obtained in electronic
CC format directly from the USPTO web site at
CC seqdata.uspto.gov/psipsDIDEntry.html.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 24; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
Db 1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
Db 61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119

RESULT 29
ABU10579
ID ABU10579 standard; Protein; 119 AA.
XX
AC ABU10579;
XX
DT 03-FEB-2003 (first entry)
XX
DE Human secreted/transmembrane protein #70.
XX
KW Human; secreted and transmembrane protein; blood;
KW tumour necrosis factor-alpha; chondrocyte cell proliferation;
KW chondrocyte cell differentiation; tumour; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; bone disorder; cartilage disorder;
KW arthritis; sports injury.
XX
OS Homo sapiens.
XX
PN US2002127584-A1.
XX
PD 12-SEP-2002.
XX
PF 15-JAN-2002; 2002US-0052586.
XX
PR 16-SEP-1998; 98WO-US19330.
PR 07-OCT-1998; 98WO-US21141.

01-DEC-1998; 98WO-US25108.
06-JAN-1999; 2000WO-US00219.
08-MAR-1999; 99WO-US05028.
14-MAY-1999; 99WO-US10733.
02-JUN-1999; 99WO-US12252.
01-SEP-1999; 99WO-US20111.
15-SEP-1999; 99WO-US21090.
01-DEC-1999; 99WO-US28301.
02-DEC-1999; 99WO-US28551.
30-DEC-1999; 99WO-US31274.
18-FEB-2000; 2000WO-US04341.
18-FEB-2000; 2000WO-US04342.
22-FEB-2000; 2000WO-US04414.
24-FEB-2000; 2000WO-US05004.
01-MAR-2000; 2000WO-US05601.
02-MAR-2000; 2000WO-US05841.
15-MAR-2000; 2000WO-US06884.
30-MAR-2000; 2000WO-US08439.
17-MAY-2000; 2000WO-US13705.
22-MAY-2000; 2000WO-US14042.
30-MAY-2000; 2000WO-US14941.
02-JUN-2000; 2000WO-US15264.
28-JUL-2000; 2000WO-US20710.
24-AUG-2000; 2000WO-US23328.
08-NOV-2000; 2000WO-US30952.
01-DEC-2000; 2000WO-US32678.
20-DEC-2000; 2000WO-US34956.
28-FEB-2001; 2001WO-US06520.
01-JUN-2001; 2001WO-US17800.
20-JUN-2001; 2001WO-US19692.
29-JUN-2001; 2001WO-US21066.
09-JUL-2001; 2001WO-US21735.
29-AUG-2001; 2001WO-US27099.
18-SEP-1997; 97US-059263P.
18-SEP-1997; 97US-059266P.
17-OCT-1997; 97US-062250P.
21-OCT-1997; 97US-063486P.
24-OCT-1997; 97US-063120P.
24-OCT-1997; 97US-063121P.
28-OCT-1997; 97US-063540P.
28-OCT-1997; 97US-063541P.
28-OCT-1997; 97US-063544P.
28-OCT-1997; 97US-063564P.
29-OCT-1997; 97US-063734P.
31-OCT-1997; 97US-063870P.
31-OCT-1997; 97US-064103P.
13-NOV-1997; 97US-065311P.
21-NOV-1997; 97US-066120P.
24-NOV-1997; 97US-066466P.
24-NOV-1997; 97US-066772P.
11-DEC-1997; 97US-069335P.
12-DEC-1997; 97US-069425P.
17-DEC-1997; 97US-069870P.
18-DEC-1997; 97US-068017P.
10-MAR-1998; 98US-077450P.
11-MAR-1998; 98US-077632P.
11-MAR-1998; 98US-077649P.
20-MAR-1998; 98US-078886P.
20-MAR-1998; 98US-078939P.
27-MAR-1998; 98US-079664P.
27-MAR-1998; 98US-079786P.
31-MAR-1998; 98US-080107P.
31-MAR-1998; 98US-080194P.
01-APR-1998; 98US-080327P.
01-APR-1998; 98US-080333P.
08-APR-1998; 98US-081049P.
08-APR-1998; 98US-081070P.
09-APR-1998; 98US-081195P.
15-APR-1998; 98US-081838P.
21-APR-1998; 98US-082568P.
21-APR-1998; 98US-082569P.
22-APR-1998; 98US-082704P.
22-APR-1998; 98US-082797P.

PR 28-APR-1998; 98US-083322P.
PR 29-APR-1998; 98US-083495P.
PR 29-APR-1998; 98US-083496P.
PR 29-APR-1998; 98US-083499P.
PR 29-APR-1998; 98US-083559P.
PR 05-MAY-1998; 98US-084366P.
PR 06-MAY-1998; 98US-084414P.
PR 07-MAY-1998; 98US-084639P.
PR 07-MAY-1998; 98US-084640P.
PR 07-MAY-1998; 98US-084643P.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-066893/06.
DR N-PSDB; ABX16655.
XX
PT Novel isolated PRO polypeptides e.g., PRO1079, PRO827, PRO791, PRO1131,
PT PRO1316, PRO1183, PRO1343, PRO1760, PRO1567 or PRO4333, useful for
PT stimulating release of tumor necrosis factor-alpha from human blood -
XX
PS Claim 11; Fig 140; 701pp; English.
XX
CC The invention relates to an isolated PRO polypeptide comprising at least
CC 80% sequence identity to the protein sequences appearing as ABU10510-
CC ABU10814 (including a version lacking its associated signal peptide, or
CC an isolated extracellular domain of a PRO polypeptide with or without
CC its associated signal peptide. Also included are the nucleic acids
CC encoding the PRO proteins (being secreted and transmembrane proteins)
CC appearing as ABX16586-ABX16590, PRO expression vectors, host cells,
CC chimaeric PRO fusion proteins, an anti-PRO antibody and a PRO
CC derived oligonucleotide sequence. The PRO polypeptides are useful for
CC stimulating release of tumour necrosis factor-alpha from human blood.
CC The PRO polypeptide PRO6029 is useful for stimulating proliferation or
CC differentiation of chondrocyte cells. The PRO polypeptides as specified
CC in the specification and having differential expression in tumour cells,
CC are useful for detecting presence of tumour in a mammal (such as adrenal
CC tumour, lung tumour, colon tumour, breast tumour, prostate tumour, rectal
CC tumour, cervical tumour or liver tumour. The PRO polypeptide PRO6029 is
CC useful for treating various bone and/or cartilage disorders such as
CC arthritis, and sports injuries. The PRO polypeptides are useful for
CC screening compounds to identify ant/agonists. PRO nucleic acids
CC are useful as hybridisation probes, in chromosome and gene mapping,
CC in the generation of anti-sense RNA and DNA, for the preparation of PRO
CC polypeptides and for generating knock-out animals. The present
CC sequence represents a PRO polypeptide.
XX
SQ Sequence 119 AA;

Query Match 100.0%; Score 119; DB 24; Length 119;
Best Local Similarity 100.0%; Pred. No. 3.3e-110;
Matches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

Qy         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
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RESULT 30
ABU10852
ID ABU10852 standard; Protein; 119 AA.
XX
AC ABU10852;
XX
DT 04-FEB-2003 (first entry)
XX
DE Human PRO polypeptide #38.

Human; PRO; secreted polypeptide; transmembrane polypeptide; toxin; radiolabel; cell death; gene mapping; chromosome mapping; protein electrophoresis; genetic disorder; immunosuppressive; cytostatic; antibacterial.

Homo sapiens.

US2002123463-A1.

05-SEP-2002.

19-NOV-2001; 2001US-0989732.

05-NOV-1997; 97WO-US20069.
16-SEP-1998; 98WO-US19330.
17-SEP-1998; 98WO-US19437.
07-OCT-1998; 98WO-US21141.
01-DEC-1998; 98WO-US25108.
05-JAN-1999; 99WO-US00106.
08-MAR-1999; 99WO-US05028.
02-JUN-1999; 99WO-US12252.
15-SEP-1999; 99WO-US21090.
15-SEP-1999; 99WO-US21547.
30-NOV-1999; 99WO-US28313.
01-DEC-1999; 99WO-US28301.
01-DEC-1999; 99WO-US28634.
16-DEC-1999; 99WO-US30095.
20-DEC-1999; 99WO-US30911.
06-JAN-2000; 2000WO-US00219.
06-JAN-2000; 2000WO-US00376.
11-FEB-2000; 2000WO-US03565.
18-FEB-2000; 2000WO-US04341.
22-FEB-2000; 2000WO-US04414.
24-FEB-2000; 2000WO-US04914.
24-FEB-2000; 2000WO-US05004.
02-MAR-2000; 2000WO-US05841.
10-MAR-2000; 2000WO-US06319.
15-MAR-2000; 2000WO-US06884.
20-MAR-2000; 2000WO-US07377.
30-MAR-2000; 2000WO-US08439.
15-MAY-2000; 2000WO-US13358.
17-MAY-2000; 2000WO-US13705.
22-MAY-2000; 2000WO-US14042.
30-MAY-2000; 2000WO-US14941.
02-JUN-2000; 2000WO-US15264.
28-JUL-2000; 2000WO-US20710.
11-AUG-2000; 2000WO-US22031.
23-AUG-2000; 2000WO-US23522.
24-AUG-2000; 2000WO-US23328.
08-NOV-2000; 2000WO-US30952.
01-DEC-2000; 2000WO-US32678.
28-FEB-2001; 2001WO-US06520.
01-JUN-2001; 2001WO-US17800.
20-JUN-2001; 2001WO-US19692.
29-JUN-2001; 2001WO-US21066.
09-JUL-2001; 2001WO-US21735.
16-JUN-1997; 97US-049787P.
17-OCT-1997; 97US-062250P.
12-NOV-1997; 97US-065186P.
13-NOV-1997; 97US-065311P.
24-NOV-1997; 97US-066770P.
25-FEB-1998; 98US-075945P.
20-MAR-1998; 98US-078910P.
28-APR-1998; 98US-083322P.
07-MAY-1998; 98US-084600P.
28-MAY-1998; 98US-087106P.
02-JUN-1998; 98US-087607P.
02-JUN-1998; 98US-087609P.
02-JUN-1998; 98US-087759P.
03-JUN-1998; 98US-087827P.
04-JUN-1998; 98US-088021P.
04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088026P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088030P.
PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088326P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088734P.
PR 10-JUN-1998; 98US-088738P.
PR 10-JUN-1998; 98US-088742P.
PR 10-JUN-1998; 98US-088810P.
PR 10-JUN-1998; 98US-088824P.
PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088858P.
PR 11-JUN-1998; 98US-088861P.
PR 11-JUN-1998; 98US-088876P.
PR 12-JUN-1998; 98US-089105P.
PR 16-JUN-1998; 98US-089440P.
PR 16-JUN-1998; 98US-089512P.
PR 16-JUN-1998; 98US-089514P.
PR 17-JUN-1998; 98US-089532P.
PR 17-JUN-1998; 98US-089538P.
PR 17-JUN-1998; 98US-089598P.
PR 17-JUN-1998; 98US-089599P.
PR 17-JUN-1998; 98US-089600P.
PR 17-JUN-1998; 98US-089653P.
PR 18-JUN-1998; 98US-089801P.
PR 18-JUN-1998; 98US-089907P.
PR 18-JUN-1998; 98US-089908P.
PR 28-AUG-2001; 2001US-0941992.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI; 2003-066810/06.
DR N-PSDB; ABX17019.
XX
PT Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
PT antagonists of polypeptide, and as molecular weight markers -
XX
PS Claim 12; Fig 99; 655pp; English.
XX
CC The invention relates to a secreted and transmembrane polypeptide, termed
CC PRO polypeptide, and the polynucleotide encoding it. The polypeptide is
CC useful for detecting PRO polypeptides and for linking a bioactive
CC molecule to a cell expressing the above polypeptides, where the bioactive
CC molecule is a toxin, radiolabel or an antibody. The bioactive material
CC causes the death of the cell. The polypeptide is useful for identifying
CC agonists or antagonists of the PRO polypeptide, for preparing variants of
CC PRO, as a molecular weight marker for protein electrophoresis purposes
CC and the PRO polynucleotide is useful for recombinantly expressing those
CC markers. The polynucleotide is also useful as a hybridisation probe, in
CC chromosome and gene mapping, in generation of antisense RNA and DNA, in
CC the preparation of PRO polypeptide, for generating transgenic animals or
CC knockout animals which in turn are useful in the development and
CC screening of therapeutically useful reagents, to construct hybridisation
CC probes for mapping the gene which encodes PRO and for the genetic
CC analysis of individuals with genetic disorders, in gene therapy, for
CC chromosome identification, as a chromosome marker and for generating
CC probes for PCR, Northern analysis, Southern analysis and Western
CC analysis. This sequence represents a human PRO polypeptide of the
CC invention.
XX

Sequence 119 AA;

cy Match 100.0%; Score 119; DB 24; Length 119;
: Local Similarity 100.0%; Pred. No. 3.3e-110;
ches 119; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
        1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
        1 MKVLISSLLLLLPLMLMSMVSSSLNPGVARGHRDRGQASRRWLQEGGQECECKDWFLRAP 60

       61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
       61 RRKFMTVSGLPKKQCPCDHFKGNVKKTRHQRHHRKPNKHSRACQQFLKQCQLRSFALPL 119
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1 completed: February 19, 2004, 18:29:22
Time : 46 secs